

Title (en)

ELECTRICAL CONNECTOR FOR HIGH-SPEED TRANSMISSION USING TWISTED-PAIR CABLE

Title (de)

ELEKTRISCHER VERBINDER FÜR HOCHGESCHWINDIGKEITSÜBERTRAGUNG UNTER VERWENDUNG EINES KABELS MIT VERDRILLTEN LEITUNGSPAAREN

Title (fr)

CONNECTEUR ÉLECTRIQUE POUR LA COMMUNICATION À HAUTE VITESSE UTILISANT UN CÂBLE À PAIRES TORSADÉES

Publication

EP 3167512 A4 20180502 (EN)

Application

EP 16749642 A 20160207

Priority

- US 201514617915 A 20150209
- US 2016016915 W 20160207

Abstract (en)

[origin: US9257796B1] An electrical connector for a shielded, twisted-pair cable comprises a conductive isolator body, multiple conductive contacts, inner and outer insulators, and inner and outer ferrules. The isolator provides electrical shielding and isolation for the contacts and untwisted portions of the wires connected to the contacts. The inner and outer insulators prevent contact between the contacts and between the contacts and the isolator, an outer shell, or a connector insert. The inner ferrule maintains electrical contact between the isolator and the shielding sheath of the cable. The outer ferrule retains the inner ferrule in place and can establish continuity between the isolator and the outer shell or connector insert.

IPC 8 full level

H01R 13/658 (2011.01); **H01R 4/12** (2006.01); **H01R 9/03** (2006.01); **H01R 13/6463** (2011.01); **H01R 13/6581** (2011.01); **H01R 13/6598** (2011.01)

CPC (source: EP US)

H01R 13/6463 (2013.01 - EP US); **H01R 13/65915** (2020.08 - EP US); **H01R 13/6598** (2013.01 - EP US)

Citation (search report)

- [IY] EP 2722937 A1 20140423 - OMRON TATEISI ELECTRONICS CO [JP]
- [Y] US 2006035514 A1 20060216 - YOHN BRENT D [US], et al
- See references of WO 2016130443A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 9257796 B1 20160209; CA 2957730 A1 20160818; CA 2957730 C 20180717; EP 3167512 A1 20170517; EP 3167512 A4 20180502; EP 3167512 B1 20210414; ES 2869247 T3 20211025; WO 2016130443 A1 20160818

DOCDB simple family (application)

US 201514617915 A 20150209; CA 2957730 A 20160207; EP 16749642 A 20160207; ES 16749642 T 20160207; US 2016016915 W 20160207